

For Experimental Use Only

For use only at an application site of a cooperator or participant and in accordance with the terms and conditions of the Experimental Use Permit. Not for sale to any person other than a participant or cooperator of the EPA-approved Experimental Use Permit program. This label must be in possession of the user at the time of pesticide application. For use only in the states/territories of California, Texas, Puerto Rico, and the US Virgin Islands. Read directions before using.

Wolbachia pipientis, wAlbB Strain

in male *Aedes aegypti* WB1 strain mosquitoes
EPA Experimental Use Permit No. 89668-EUP-3

ACTIVE INGREDIENT:

Wolbachia pipientis, wAlbB Strain* 0.001%

OTHER INGREDIENTS: 99.999%

TOTAL: 100.000%

*The Active Ingredient is *Wolbachia pipientis*, wAlbB Strain, intracellular, obligate, and naturally-occurring bacteria in male *Aedes aegypti* WB1 strain mosquitoes.

KEEP OUT OF REACH OF CHILDREN

Contains live male mosquitoes

EXPIRATION DATE: EXPIRATION DATE HERE.

Keep male mosquitoes at moderate temperatures (59°F to 77°F) during delivery and storage.

Lot/Batch No.: _____

Net contents:

Large Unit: Approximately 0.21 milligrams (mg) *Wolbachia pipientis* wAlbB Strain contained in approximately 15,000 adult *Aedes aegypti* male WB1 Strain mosquitoes weighing approximately 0.74 oz. or 21 g weight. Large Units may be transported to the release site inside a cooler that has been sealed with tape. The size of the cooler can vary, based on the number of Large Units being transported.

Small Unit: Approximately 0.014 milligrams (mg) *Wolbachia pipientis* wAlbB Strain contained in approximately 1,000 adult *Aedes aegypti* male WB1 Strain mosquitoes weighing approximately 0.045 oz. or 1.4 g maximum weight. Small Units are transported to the release site inside a cooler that has been sealed with tape. The size of the cooler can vary, based on the number of Small Units being transported, e.g., 20 Small Units will fit inside a cooler that is 16x14x13 inches.

EPA Est. Nos.: 89668-KY-001, 89668-KY-002, and 92643-CA-001

MosquitoMate, Inc.

2520 Regency Road, Suite B

Lexington, KY 40503

Phone (859) 488-1125

89668-EUP-3

~~11-20-18~~ AMEND Label Version May 29,

ED_006741_00006316-00001

PRECAUTIONARY STATEMENTS

ENVIRONMENTAL HAZARDS

Do not contaminate water when disposing of equipment washwater or rinsate.

DIRECTIONS FOR USE

FOR EXPERIMENTAL USE ONLY

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For experimental use by MosquitoMate, Inc.; Verily, LLC; and their cooperators in ~~California, Puerto Rico, US Virgin Islands, and Texas~~ under the EPA Experimental Use Permit (EUP) for suppression of *Aedes aegypti* mosquitoes.

Only male (and no female) *Ae. aegypti* strain WB1 mosquitoes carrying *Wolbachia pipientis*, wAlbB Strain microbial pesticide are to be released. The mosquitoes and their life stages are for use only by the staff, technicians, and/or cooperators of MosquitoMate, Inc.; Verily Life Sciences, LLC; and their cooperators in ~~California, Puerto Rico, US Virgin Islands, and Texas~~ specifically trained for this purpose.

Before making the first applications under this EUP, consult with the state agency with primary responsibility for pesticide regulation to determine if other regulatory requirements exist. Releases of male mosquitoes are done on a weekly basis with multiple releases per week. Male mosquitoes are released to the air and fly away to mate with indigenous females. The minimum desired ratio of WB1:Wild type male *Ae. aegypti* is 7:1. All of the use sites for this EUP are included in Section G of the application (on Field Trial Information Forms).

Aedes aegypti males that carry *W. pipientis*, wAlbB Strain microbial pesticide are to be released multiple times per week in ~~both 2019 and 2020~~ 2021 at the above identified sites. To measure for population suppression effects, mosquito populations will be sampled using mosquito traps to monitor adults and eggs. These mosquitoes typically lay eggs in containers, such as discarded cups or bottles.

At the release site, containers are opened to release adult male mosquitoes that disperse and mate with indigenous *Ae. aegypti* female mosquitoes. WB1 males within large units will be released from a ground vehicle (van, truck, car or similar) while driving through the Treated area along roads. WB1 males within small units will be released by hand at points located throughout the Treated area. For small unit releases by hand: When ready to release: 1) Carry the container to the pre-determined release site, 2) Point opening of container away from face and open lid, and 3) Gently shake container to facilitate release of the WB1 males.

For large unit releases by ground vehicle (van, truck, car or similar): Release only using the large unit blower. When ready to release: 1) Drive the vehicle to the pre-determined release site and 2) Use fan to gently blow mosquitoes out of the release container and out of the vehicle into the pre-determined release site.

89668-EUP-3

~~11-20-18~~ AMEND Label Version ~~May 29,~~

ED_006741_00006316-00002

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE

Keep container closed until ready to use. Keep in original container. Store WB1 males out of direct sunlight and at moderate temperatures 59 °F - 77 °F (15 °C - 25 °C).

PESTICIDE DISPOSAL

Release all living WB1 Males present in container. Discard dead individuals in trash. If WB1 Males are not released by the expiration date, kill males by freezing or allow them to die by keeping inside closed container for a minimum of 7 days, then discard dead mosquitoes in trash.

CONTAINER HANDLING

Refillable container. Refill this container with WB1 Males (*Wolbachia pipientis*, WB1 strain in *Aedes aegypti*) only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Offer for recycling if available or dispose of in trash or in a sanitary landfill. Do not burn. Cleaning before refilling is the responsibility of the refiller. For cleaning, remove the cap from both ends of the tube, and then use a dry brush to remove any mosquitoes stuck to the inside of the container. Call +1-859-488-1125 for instructions on returning the empty container.

89668-EUP-3

~~11-20-18~~ AMEND Label Version May 29,

ED_006741_00006316-00003

~~Sub-Label:~~

~~For Experimental Use Only~~

89668-EUP-3

~~11-20-18-AMEND Label Version May-29,~~

ED_006741_00006316-00004

For use only at an application site of a cooperator or participant and in accordance with the terms and conditions of the Experimental Use Permit. Not for sale to any person other than a participant or cooperator of the EPA-approved Experimental Use Permit program. This label must be in possession of the user at the time of pesticide application. For use only in the states of Florida, Hawaii, Texas, and Virginia. Read directions before using.

~~*Wolbachia pipientis*, ZAP Strain~~

~~*ZAP Males*®~~

~~*Wolbachia* prevents the development of Asian Tiger
(*Aedes albopictus*) mosquito eggs~~
~~EPA Experimental Use Permit No. 89668-EUP-3~~

~~ACTIVE INGREDIENT:~~

~~*Wolbachia pipientis*, ZAP Strain* 0.001 %~~

~~OTHER INGREDIENTS 99.999%~~

~~TOTAL 100.000%~~

~~*The Active ingredient is *Wolbachia pipientis*, ZAP Strain,
contained in live adult male *Aedes albopictus* mosquitoes.~~

~~KEEP OUT OF REACH OF CHILDREN~~

~~*Contains live male mosquitoes*~~

~~EXPIRATION DATE: EXPIRATION DATE HERE.~~

~~Keep male mosquitoes at moderate temperatures (59°F to 77°F) during delivery and storage.~~

~~Lot/Batch No.: _____~~

~~Net contents:~~

~~Large Unit: A minimum of 0.030 milligrams (mg) *Wolbachia pipientis*, ZAP Strain,
contained in approximately 15,000 adult *Ae. albopictus* ZAP Male mosquitoes weighing
3.54 oz. or 100.50 g maximum weight.~~

~~Small Unit: A minimum of 0.002 mg *Wolbachia pipientis*, ZAP Strain, contained in
approximately 1,000 adult *Ae. albopictus* ZAP Male mosquitoes weighing 0.236 oz. or 6.7 g
maximum weight. Small Units are transported to the release site inside a Styrofoam cooler
that has been sealed with tape. The size of the cooler can vary, based on the number of
Small Units being transported, e.g., 20 Small Units will fit inside a cooler that is 16x14x13
inches.~~

89668-EUP-3

11-20-18-AMEND Label Version May 29,

ED_006741_00006316-00005

EPA Est. Nos.: 89668-KY-001, 89668-KY-002, and 92643-CA-001
MosquitoMate, Inc.,
2520 Regency Road,
Suite B Lexington, KY
40503
Phone (859) 488-1125

PRECAUTIONARY STATEMENTS

ENVIRONMENTAL HAZARDS

Do not contaminate water when disposing of equipment washwater or rinsate.

DIRECTIONS FOR USE

FOR EXPERIMENTAL USE ONLY

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For experimental use by MosquitoMate, Inc.; Anastasia Mosquito Control District of St. Johns Co., FL; Suffolk Municipal Mosquito Control of Suffolk, VA; State of Hawaii, Dept. of Land and Natural Resources, Honolulu County, HI; and Harris County Public Health, Mosquito and Vector Control, Houston, TX; and their cooperators in Florida, Texas, Hawaii, and Virginia under the EPA Experimental Use Permit 89668-EUP-3 for suppression of *Ae. albopictus* mosquitoes.

Only male (and no female) *Ae. albopictus*, ZAP strain mosquitoes carrying *Wolbachia pipientis*, microbial pesticide are to be released. The mosquitoes and their life stages are for use only by the staff, technicians, and/or cooperators of MosquitoMate, Inc.; Anastasia Mosquito Control District of St. Johns Co., FL; Suffolk Municipal Mosquito Control of Suffolk, VA; State of Hawaii, Dept. of Land and Natural Resources, Honolulu Co., HI; and Harris Co. Public Health, Mosquito and Vector Control, Houston, TX; and their cooperators specifically trained for this purpose.

Before making the first applications under this EUP, consult with the state agency with primary responsibility for pesticide regulation to determine if other regulatory requirements exist. Releases of male mosquitoes are done on a weekly basis with multiple releases per week. Male mosquitoes are released to the air and fly away to mate with indigenous females. The minimum desired ratio of ZAP:Wild type male *Ae. albopictus* is 7:1. All of the use sites for this EUP are included in Section G of the application (on Field Trial Information Forms).

Aedes albopictus males that carry *W. pipientis* microbial pesticide are to be released weekly for up to six months in 2018 and 2019 at the above sites specified in 89668-EUP-3. To measure for population suppression effects, mosquito populations will be sampled using mosquito traps to monitor adults and eggs.

At the release site, containers are opened to release adult male mosquitoes that disperse and mate with indigenous *Ae. albopictus* female mosquitoes. ZAP males in small unit containers will be released by hand at points located throughout the treated area.

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STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE

Keep container closed until ready to use. Keep in original container. Store ZAP males out of direct sunlight and at moderate temperatures 59 °F – 77 °F (15 °C – 25 °C).

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PESTICIDE DISPOSAL

Release all living ZAP Males present in container. Discard dead individuals in trash. If ZAP male mosquitoes are not released by the expiration date, kill males by freezing or allow them to die by keeping inside closed container for a minimum of 7 days, then discard dead mosquitoes in trash.

CONTAINER HANDLING

Refillable container. Refill this container with ZAP Males. (*W. pipientis*, ZAP Strain, in *Ae. albopictus*) only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Offer for recycling if available or dispose of in trash or in a sanitary landfill. Do not burn. Cleaning before refilling is the responsibility of the refiller. For cleaning, use a dry brush to remove any mosquitoes stuck to the inside of the container. Call +1-859-488-1125 for instructions on returning the empty container.